Annual Progress Report of Academic Output
Clinical Research Study Program
Duke Clinical Research Institute

Academic Year:  August 2017 – July 2018
Kristin Corey – Duke Advanced Oncologic and GI Surgery

Mentor: Sandhya Deenadayalan-Lagoo, MD and Allen Kirk, MD, PhD

Program: Completed Clinical Research Study Program

Project Title:
- PROMISE: Perioperative Risk Optimization with Machine learning for an Improved Surgical Experience
- Pythia: Open Science Data Platform for Research, Innovation, and Quality Improvement

Scholarship: DIHI Scholarship

Awards: Second Place at DCRI’s Clinical Research Day - May 2018

Publications:
Submitted:


Presentations/Abstracts:

Matthew Gold – Duke Cardiology

Mentor(s): Ann Marie Navar, MD

Program: Completed Clinical Research Study Program

Project Title: PCSK9 Inhibitors and PBM Approvals

Presentations/Abstracts:
James Helzberg – Duke Gastroenterology

**Mentor(s):** Andrew Muir, MD, MHS

**Program:** Completed Clinical Research Study Program

**Project Title:** National trends in hospitalizations for chronic liver disease from 2005 to 2014

**Medical School Contributions:** Student Faculty for Clinical Skills Course, Student Faculty for Clinical Skills Foundations II course, served on Duke Clinical Research Undergraduate Experience Panel

**Publications:**

**Submitted:**


**Presentations/Abstracts:**


Aman Kansal – Duke Cardiology

**Mentor(s):** Schuyler Jones, MD

**Program:** Completed Clinical Research Training Program

**Project Title:**

- Impact of Procedural Bleeding in Peripheral Artery Disease: Results from the EUCLID Trial
• Methods for Incorporating Diagnosis Codes as Features in Predictive Tasks

**Scholarship:** DIHI Scholarship Publications:

**Publications:**

**Submitted:**

**Kansal A:** Gao M, Nichols M, Kashyap S; Corey K, Balu S, Sendak M. Methods for Incorporating Diagnosis Codes as Features in Predictive Tasks. Submitted to PLOS ONE (under review).

**In Progress:**


**Presentations/Abstracts:**


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**Dayoung Ko – Duke Study Away Student**

**Mentor(s):** Shari Lipner, MD, PhD

**Program:** Completed Clinical Research Study Program

**Project Title:** Retrospective Single-Center Study Evaluating Clinical and Dermoscopic Features of Longitudinal Melanonychia, ABCDEF Criteria, and Risk of Malignancy
**Awards:**

**Publications:**


**Submitted:**


**Ko D**, Lipner SR. Onychogryphosis: Case Report and Review of the Literature. Skin Appendage Disorders

**Presentations/Abstracts:**


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**Xin Yi “Nicola” Lew – Duke Community and Family Medicine - Singapore**

**Mentor(s):** Mina Silberberg, MD

**Program:** Completed Clinical Research Study Program

**Project Title:** Rates and Predictors of Follow-up and Blood Pressure Control at a Federally Qualified Health Center in North Carolina.
**Awards:** Duke Community and Family Medicine Departmental Small Grants (DSG) Program for Research & Scholarship Award

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**Stephanie Lim – Duke OB/GYN**

**Mentor(s):** Laura Havrilesky, MD

**Program:** Completed Clinical Research Study Program

**Scholarship:** Duke Ovarian Cancer Scholarship, Infectious Disease Society of Obstetrics and Gynecology Travel Scholar Award, Chancellor Service Fellowship

**Project Title:** Hysterectomy with Sentinel Lymph Node Biopsy in the Setting of a Pre-Operative Diagnosis of Endometrial Intraepithelial Neoplasia: A Cost-Effectiveness Analysis

**Panels:** DCRUE Medical Student Panel

**Publications:**

**Accepted with Minor Revisions:**

Lim SL, Moss HA, Davidson BA, Havrilesky LJ. Hysterectomy with Sentinel Lymph Node Biopsy in the Setting of a Pre-Operative Diagnosis of Endometrial Intraepithelial Neoplasia: A Cost-Effectiveness Analysis. Gynecologic Oncology

**In Prep:**

Lim SL, Havrilesky LJ, Cohn D, Secord AA. Cost-effectiveness of Hyperthermic Intraperitoneal Chemotherapy (HIPEC) at Interval Debulking of Epithelial Ovarian Cancer Following Neoadjuvant Chemotherapy.


**Presentations/Abstracts:**

Lim SL, Havrilesky LJ, Cohn D, Secord AA. Cost-effectiveness of Hyperthermic Intraperitoneal Chemotherapy (HIPEC) at Interval Debulking of Epithelial Ovarian Cancer Following Neoadjuvant Chemotherapy. The International Gynecologic Cancer Society Annual Meeting. 2018. Kyoto, Japan


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**Anthony Lin – Duke Population Health Sciences**

**Mentor(s):** Hayden Bosworth, MD, Cara O’Brien, MD, and Suresh Balu

**Program:** Completed Clinical Research Study Program

**Project Title:** Investigating the Clinical and Operational Impact of Sepsis Phenotype Selection

**Scholarship:** Duke Institute for Health Innovation Clinical Research and Innovation Scholarship

**Honors and Awards:**
- Alpha Omega Alpha Day Best Patient-Oriented Platform Presentation, 2018
- American Thoracic Society Student Scholar, 2018
- Robert M. Califf Clinical Research Travel Scholarship, 2018
- Society of Hospital Medicine Best of Research and Innovations Plenary Presentation, 2018
- Dean’s Third Year Research Travel Award, 2018
- Learning Health System Training Program Scholar, 2017
- Feagin Leadership Scholar, 2017
- Duke Institute for Health Innovation Clinical Research and Innovation Scholarship, 2017

**Medical School Committee Contributions:** Committee for Curricular Innovation

**Publications:**
**Accepted:**

**Submitted:**

**Up for Submission in <4 weeks:**


**Posters and Oral Presentations:**


**Kelly McHugh – Duke Cardiology**

**Mentor(s):** Adrian Hernandez, MD and Adam DeVore, MD

**Program:** Completed Clinical Research Study Program

**Project Title:**
- Engaging Patients throughout the Health System: A Landscape Analysis of Top Research Institutions and Cold Call Policies
- Heart Failure with Preserved Ejection Fraction with and without Diabetes Mellitus: Characteristics and Outcomes

**Publications:**

**Submitted:**

**In Preparation:**
McHugh, KR, Swamy, GK, Hernandez, AF. Engaging Patients throughout the Health System: A Landscape Analysis of Top Research Institutions and Cold Call Policies.

**Presentations/Abstracts:**
McHugh KR, Wu J, Matsouaka RA, DeVore AD, Fonarow GC, Heidenreich PA, Yancy CW, Green JB, Altman NA, Hernandez AF. Diabetes Predicts Worse In-Hospital and Post-Discharge Outcomes in Patients with Heart Failure with Preserved Ejection Fraction: Findings from the Get With the Guidelines Heart Failure Registry Poster presented at: Heart Failure Society of America 22nd Annual Scientific Meeting; 2018 Sept 15; Nashville, TN, USA.


McHugh KR, Swamy GK, Hernandez AF. Engaging Patients throughout the Health System: A Landscape Analysis of Top Research Institutions and Cold Call Policies. Poster Presented at: Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke 2018 Scientific Sessions; 2018 April 7; Arlington, VA.
Connor Moseley – Duke Health Policy

*Mentor(s):* Charlene Wong, MD, MSHP

**Program:** Completed Clinical Research Study Program

**Project Title:**
- Incentivizing Health Behaviors in Medicaid: A Program Landscape and Insights on Beneficiary Engagement and Evaluation
- US adolescent and young adult recreational, occupational, and transportation physical activity: Relationships with activity recommendation adherence and weight status

**Other Coursework Completed:**
Introduction to Healthcare Markets and Policy for Practitioners

**Teaching Experience:**
- Student Facilitator: Clinical Skills Course
- Student Facilitator: Clinical Skills Foundation, Year 2

**Publications:**

*Submitted:*
Vulimiri M, Saunders RS, Bleser WK, Madanay FL, **Moseley CA**, McGuire H, Ubel PA, McKethan A, McClellan M Wang CA. Incentivizing Health Behaviors in Medicaid: A Program Landscape and Insights on Beneficiary Engagement and Evaluation


**Presentations/Abstracts:**


Moseley CA, Skinner AC, Peterson ED, Perrin EM, Armstrong SC, Wong CA. US Adolescent and Young Adult Physical Activity Domains: Recommendation and Weight Associations. Accepted for Poster Session: The Obesity Society Obesity Week 2018, Nashville, TN, November 2018

Kiyani Musa – Duke Neurology

Mentor(s): Nandan Lad, MD, PhD

Program: Completed Clinical Research Study Program

Project Title: The Healthcare Economics of Neurological Disease

Scholarship:
Publications:
Xu M, Seas A, Kiyani M, Ji KSY, Bell HN. A Temporal Examination of Calcium Signaling in Cancer from Tumorigenesis, to Immune Evasion, and Metastasis. Cell Biosci 2018;8:25

Presentation/Abstracts:

Clare Parker, Duke Study Away (Singapore) Duke-NUS

Mentor(s): Marcus Ong, MD

Program: Completed Clinical Research Study Program

Project Title: Predicting Hospital Admission at Emergency Department Triage: A Novel Prediction Model

Scholarship: Singapore

Publications:
Submitted:
Parker C, Liu N, Wu S, Shen Y, Lam S, Ong M. Predicting Hospital Admission at Emergency Department
Triage: A Novel Prediction Model.


**Presentations/Abstracts:**

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**Sarah Scharber – Duke Study Away Student (Minnesota)**

**Mentor(s):** Johanna Moore, MD

**Program:** Completed Clinical Research Training Program

**Project Title:** Ketamine vs Midazolam for Prehospital Agitation

**Scholarship:** DIHI Scholarship

**Publications:**

**Submitted:**


Cole JB, Kummer TM, Klein LR, **Scharber SK**, Horton GB, Elm KD, Olives TD. The Use and Effectiveness of Intramuscular Ketamine for Prehospital Agitation in Pediatric Patients. Pediatric Emergency Care. Submitted June 2018

Driver BE, **Scharber SK**, Fagerstrom ET, Klein LR, Cole JB, Dhaliwal RD. The Effect of a Clinical Decision Support for Pending Laboratory Results at Emergency Department Discharge. Journal of Emergency Medicine. Submitted April 2018

**Presentations/Abstracts:**
Cole JB, **Scharber SK**, Simpson NS, Klein LR, Olives TD, Nystrom PC, Moore JC, Arens AM, Driver BE, Hornsby T, Ho JD. A Perspective Observational Study of Prehospital Katamine for Agitation Secondary to Cocaine or Methamphetamine Intoxication. Moderated Poster Presentation. Presented at the American College of Medical Toxicology Annual Scientific Meeting, April 2018. Washington, DC


Cole JB, Kummer TM, Klein LR, Scharber SK, Horton GB, Elm KD, Olives TD. The Use and Effectiveness of Intramuscular Ketamine for Prehospital Agitation in Pediatric Patients within an EMS System Based at a Pediatric Level 1 Trauma Center. Acad Emerg Med. 2018;25:S. Poster Presentation, Society for Acad Emerg Med 2018, Indianapolis, IN.


Abstracts (Non-speaker):


George Tran – Duke Hematology-Oncology

Mentor(s): Syed Yousuf Zafar, MD

Program: Completed Clinical Research Study Program

Project Title:
- A Randomized, Controlled Trial to Test a Mobile Application to Reduce Cancer Treatment-Related Financial Burden
- Feasibility of cancer clinical trial enrollment goals based on cancer incidence

Miscellaneous:
- Participated in DCRUE panel
- Responsible for enrolling patients in and managing logistics of a 200-patient randomized, controlled trial as part of the project: A Randomized, Controlled Trial to Test a Mobile Application to Reduce Cancer Treatment-Related Financial Burden

Publications:
Tran G, Zafar SY. Financial Toxicity and Implications for Cancer Care in the Era of Molecular and Immune Therapies. Ann Transl Med 2018;6(9):166.


Presentations/Abstracts:


Hunter Warwick – Duke Orthopedics

Mentor(s): Richard Chad Mather III, MD, MBA

Program: Completed Clinical Research Study Program

Scholarship: Mary W and Foster G McGaw Scholarship

Medical School Recognition: Duke University School of Medicine Chapter of Alpha Omega Alpha Medical Honor Society Member for Fall 2018
Project Title: Social Incentives and Patient-Reported Outcome Measure Survey Response Rate in the Orthopaedic Population

Publications:
Submitted:


Presentations/Abstracts:


Andrew Yuan – Duke Psychiatry and Behavioral Sciences

Mentor(s): Geraldine Dawson, MD

Program: Completed Clinical Research Study Program

Project Title: Examining the Validity of Computerized Movement Tracking as an Index of Symptom Severity for Autism Clinical Trials

Publications:
Submitted:

**Presentations/Abstracts:**


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**Tingrui Zhao - Duke Nephrology**

**Mentor(s):** Myles Wolf, MD and Blake Cameron, MD

**Program:** Completed Clinical Research Study Program

**Scholarship:** Stead Scholarship

**Project Title:**
- Lysophospholipids in Chronic Kidney Disease-Associated Pruritus
- Analysis of Cost and Attribution of Newly End-Stage-Renal-Disease Patients in Duke Connected Care

**Presentations/Abstracts:**

Zhao T, Cameron B, Wolf M. Analysis of Cost and Attribution of Newly End-Stage-Renal-Disease Patients in Duke Connected Care. Duke University School of Medicine Alpha Omega Alpha Day, Durham, North Carolina, August 3, 2018